CENTER FOR DRUG EVALUATION AND RESEARCH APPROVAL PACKAGE FOR: APPLICATION NUMBER

21-184/002

Chemistry Review(s)

CHEMISTRY REVIEW #2 ADDENDUM

APPEARS THIS WAY ON ORIGINAL

DIVISION OF DERMATOLOGICAL AND DENTAL DRUG PRODUCTS HFD-540

Review of Chemistry, Manufacturing, and Controls

NDA #: 21-184	CHEM. REVIEW #: 2	REVIEW DATE:	26-SEPT-2002
SUBMISSION/TYPE	DOCUMENT DATE	CDER DATE	ASSIGNED DATE
21-184/Y-001 21-184/SE1-002/BL Telecon	7-APR-2002 25-APR-2002 25-SEPT-2002	9-APR-2002 26-APR-2002 25 SEPT-2002	10-APR- 2002 6 MAY-2002 25-SEPT 2002

NAME & ADDRESS OF APPLICANT:

Allergan, Inc. 2525 Dupont Drive P.O. Box 19534 Irvine, CA 92623

Trudy A. Rumbaugh, MD

Director, Global Regulatory Affairs

(714) 246-4292

DRUG PRODUCT NAME

Proprietary:Avage™ Cream, 0.1%Nonproprietary/USAN:Tazarotene Cream, 0.1%Code Names/#'s:AGN 190168

Chemical Type/ 3
Therapeutic Class: S

PHARMACOLOGICAL CATEGORY/INDICATION:

DOSAGE FORM: Cream
STRENGTHS: 0.1%
DOUBLE OF A DMINISTRATION: Topical

ROUTE OF ADMINISTRATION: Topical

<u>DISPENSED</u>: <u>X</u> Rx __OTC

CHEMICAL NAME, STRUCTURAL FORMULA, MOLECULAR FORMULA, MOL. WT:

Ethyl 6-[(4,4-dimethylthiochroman-6-yl) ethynyl] nicotinoate

Molecular Formula:

C21H21NO2S

Molecular Weight:

CAS No.: 118292-40-3

SUPPORTING DOCUMENTS:

None.

NDA 21-184/SE1-002 Avage™ (Tazarotene) Cream, 0.1% Allergan, Inc.

REMARKS/COMMENTS:

This is a follow-up to chemistry review # 1 of an efficacy supplement which provides for a new indication,

which was submitted in accordance with 21 CFR 314.70(b)(3)(g). The sponsor's initial proposal of as a new proprietary name for their product (letter dated April 25, 2002), instead of the previously approved name, "TAZORAC", was found unacceptable. This follow-up reviews the carton and container label with the new proprietary name "AVAGETM", which was submitted by the sponsor on July 3, 2002 (21-184-SE1-002/NC dated July 3, 2002), and which was approved by the Division of Medication Errors and Technical Support on September 20, 2002 (with the proviso that the sponsor make a Phase 4 commitment to submit all medication error reports, both potential and actual, that occur with the drug Avage for a period of two years following the date of drug approval).

The final print carton and container label in the annual report (NDA 21-184/Y-001, Tazorac (tazarotene) Cream, 0.05 and 0.10%, (dated April 9, 2002) do not incorporate the changes to the established name (i.e., removal of "topical cream" from within the parentheses) which were requested in our fax of August 24, 2000. Upon request of the project manager, the sponsor submitted via facsimile a copy of the modified labeling using the new approved proprietary name, "AVAGETM", on the carton and container (see pages 3 and 4 below). There were several deficiencies in the faxed submission which were relayed to the sponsor via telecon on September 25, 2002, and which are summarized below.

The prominence of the established name is not commensurate with the prominence of the proprietary name as required by 21 CFR 201.10(g)(2), which states: "The established name shall be printed in letters that are at least half as large as the letters comprising the proprietary name or designation with which it is joined, and the established name shall have a prominence commensurate with the prominence with which such proprietary name or designation appears, taking into account all pertinent factors, including typography, layout, contrast, and other printing features." Furthermore, the font of the dosage strength is not commensurate with the prominence of the established name.

The sponsor was informed that the final print carton and container label in the annual report (NDA 21-184/Y-001, Tazorac (tazarotene) Cream, 0.05 and 0.10%, (dated April 9, 2002) do not incorporate the changes to the established name (i.e., removal of "topical cream" from within the parentheses) which were requested in our fax of August 24, 2000 (See minutes of September 25, 2002 telecon). The sponsor was requested to modify the font and spacing of the established name to adhere to the requirements of 21 CFR 201.10(g)(2). The sponsor was also requested to modify the font of the dosage strength to be commensurate with the prominence of the established name, after modification of the established name to conform to the regulatory requirements as requested.

The sponsor agreed to make the requested changes.

CONCLUSIONS & RECOMMENDATIONS:

The supplemental application is recommended for APPROVAL under section 505(b) of the Federal Food, Drug, and Cosmetic Act, on condition that the sponsor include with the final printed insert the requested modifications as requested in the telecon of September 25, 2002.

S. A. Turujman, Ph.D. Review Chemist

cc: Orig. NDA 21-184

HFD-540/Division File

HFD-540/DivDir/JKWilkin

HFD-540/ProjMan/KBhatt

HFD-540/Pharm/ANostrandt

HFD-540/MedOffr/HKo

HFD-540/Chem/SATurujman

HFD-540/TeamLdr/WHDeCamp

C:\DATA\MY DOCUMENTS\TURUJMAN\REVIEWS\SUPPLEMENTS\SUPPL 2002\21-184 TAZAROTENE CREAM\21-184 SEI-002 CARTON.DOC

pages redacted from this section of the approval package consisted of draft labeling

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

Saleh Turujman 9/26/02 03:38:01 PM CHEMIST

For your concurrence

Wilson H. DeCamp 9/26/02 04:01:32 PM CHEMIST concur with review

CHEMISTRY REVIEW #1 ADDENDUM

APPEARS THIS WAY ON ORIGINAL

DIVISION OF DERMATOLOGICAL AND DENTAL DRUG PRODUCTS HFD-540

Review of Chemistry, Manufacturing, and Controls

<u>NDA #</u>: 21-184 <u>CHEM. REVIEW #</u>: 1 <u>REVIEW DATE</u>: 15-APR-2002

SUBMISSION/TYPE DOCUMENT DATE CDER DATE ASSIGNED DATE

21-184/SE1-002 28-JUN-2001 29- JUN-2001 3-AUG- 001

NAME & ADDRESS OF APPLICANT: Allergan, Inc.

2525 Dupont Drive P.O. Box 19534 Irvine, CA 92623

Trudy A. Rumbaugh, MD

Director, Global Regulatory Affairs

(714) 246-4292

DRUG PRODUCT NAME

Proprietary: Tazorac Cream, 0.1%
Nonproprietary/USAN: Tazarotene Cream, 0.1%

Code Names/#'s: AGN 190168

Chemical Type/ 3
Therapeutic Class: S

PHARMACOLOGICAL CATEGORY/INDICATION:

DOSAGE FORM: Cream STRENGTHS: 0.1%

ROUTE OF ADMINISTRATION: Topical

<u>DISPENSED</u>: <u>X</u> Rx __ OTC

CHEMICAL NAME, STRUCTURAL FORMULA, MOLECULAR FORMULA, MOL. WT:

Ethyl 6-[(4,4-dimethylthiochroman-6-yl) ethynyl] nicotinoate

N O O

Molecular Formula:

 $C_{21}H_{21}NO_2S$

Molecular Weight:

118292-40-3

SUPPORTING DOCUMENTS:

None.

CAS No.:

REMARKS/COMMENTS:

This is an efficacy suppl	ement which p	provides for the			
		in accordance with 21 CFR 314.70(b)(3)(i). The sponsor			
submits a claim of categorical exclusion, stating that the exposure due to the proposed indication will be less than 1 ppb.					
The spansor proposed	" ac a	new proprietory name for their product, instead of the surrent name			

The sponsor proposed "as a new proprietary name for their product, instead of the current name, "TAZORAC". The request was denied. The modified labeling will use the proprietary name "TAZORAC".

CONCLUSIONS & RECOMMENDATIONS:

The supplemental application is recommended for APPROVAL under section 505(b) of the Federal Food, Drug, and Cosmetic Act.

S. A. Turujman, Ph.D. Review Chemist

cc: Orig. NDA 21-184

HFD-540/Division File

HFD-540/DivDir/JKWilkin

HFD-540/ProjMan/KBhatt

HFD-540/Pharm/ANostrandt

HFD-540/MedOffr/HKo

HFD-540/Chem/SATurujman

HFD-540/TeamLdr/WHDeCamp

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This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

Wilson H. DeCamp 4/16/02 10:08:23 AM concur with review

Bhatt, Kalyani

⁻-om:

Decamp II, Wilson H

nt:

Friday, August 03, 2001 3:23 PM

J:

Bhatt, Kalyani; Turujman, Saleh; Jacobs, Abigail C; Bashaw, Edward D; Luke, Markham C; Walker, Susan J; Al Osh, Mohamed A; Fritsch, Kathleen; Ghosh, Tapash; Nostrandt, Amy C;

Wilkin, Jonathan K; Ko, Hon Sum

Cc:

Kozma-Fornaro, Mary J

Subject:

RE: EDR - NDA 021184 S-002 from ALLERGAN drug name Tradename

(TAZAROTENE)/0.1% TOPICAL CR

On an overview of this submission, I find that:

(1) a categorical exclusion is claimed for the EA, which is based on the approved EA, and which does not require a review;

(2) there are no new package sizes or other manufacturing changes; and

(3) the carton and label are submitted for our review.

Therefore, the chemistry recommendation is that the application be filed. We will defer initiating any chemistry review until we have a response from OPDRA on the tradename issue. At that time, if appropriate, we will initiate a review of the labeling only. My estimate of review completion is 60 days after we receive the results from OPDRA, or the end of November, whichever is later.

Of course, if any discipline identifies an issue that requires chemistry review, we will promptly initiate a review including that issue.

an additional point, I find it interesting that

is a business decision, which only needs to be reported in the annual report, and over which we have no approval authority.

As a thinking point, consider how we might have handled this application if the other.

Tony

----Original Message----

From: Bhatt, Kalyani

Sent: Friday, August 03, 2001 2:30 PM

To: Decamp II, Wilson H; Turujman, Saleh; Jacobs, Abigail C; Bashaw, Edward D; Luke, Markham C; Walker, Susan J; Al Osh, Mohamed A; Fritsch, Kathleen; Ghosh, Tapash; Nostrandt, Amy C; Wilkin, Jonathan K; Ko, Hon

Sum

Cc: Kozma-Fornaro, Mary J

vbject; FW: EDR - NDA 021184 S-002 from ALLERGAN drug name adename(TAZAROTENE)/0.1% TOPICAL CR

ello Review Team

an electronic submission which you can have access to below. Please look through this and see if you are having a difficulty in having access to the data. If so, send me a list things you may need which I will forward to the sponsor. Allergan has access to the security email. Thanks,

Kalyani

----Original Message----

From: EDRAdmin@cder.fda.gov [mailto:EDRAdmin@cder.fda.gov]

Sent: Monday, July 02, 2001 11:35 AM

To: BHATTK@cder.fda.gov; KOH@cder.fda.gov; NOSTRANDTA@cder.fda.gov;

FRITSCHK@cder.fda.gov; BOYDK@cder.fda.gov; ALLENS@cder.fda.gov;

BROWNEWELLS@cder.fda.gov; NGUYENH@cder.fda.gov;

KOZMAFORNARO@cder.fda.gov

Cc: levinr@cder.fda.gov; henigp@cder.fda.gov; selnekovic@cder.fda.gov;

nathanj@cder.fda.gov; SCHAPIROP@cder.fda.gov

Subject: EDR - NDA 021184 from ALLERGAN drug name TAZORAC(TAZAROTENE)

0.05%/0.1% TOPICAL CR

Hi!

ne EDR has received an Electronic Document on CD-ROM For division HFD-540:

NDA # N21184

Incoming Document type SE1
Incoming Document Type Sequence Number 002
Supplement Modification Type

Letter Date 6/28/01

It has item's 1, 2, 3, 4, 5, 6, 8, 11, 12

It is now available on the network. You can review this submission by entering EDR in your browser.

Thanks,

Nathan